



## CORRECTED SEQUENCE LISTING

<110> Masakazu Takeuchi  
Yoshimi Takai

<120> Rabconnectin-3-binding protein

<130> 2003946-0055

<140> 10/645,335

<141> 2003-08-21

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<151> 2002-11-01

<160> 4

<210> 1

<211> 4473

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(4470)

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1 5 10 15	
gcg ccc aca cat tgc atc tca gcg gta ctt tta aca gat gat ggg gcc	96
Ala Pro Thr His Cys Ile Ser Ala Val Leu Leu Thr Asp Asp Gly Ala	
20 25 30	
acg atc gta aca gga tgt cac gac gga caa ata tgt ctc tgg gat ctt	144
Thr Ile Val Thr Gly Cys His Asp Gly Gln Ile Cys Leu Trp Asp Leu	
35 40 45	
tca gta gaa ctg caa att aat cct cga gca ctg ttg ttt ggt cat aca	192
Ser Val Glu Leu Gln Ile Asn Pro Arg Ala Leu Leu Phe Gly His Thr	
50 55 60	
gca tca atc act tgt ttg tct aaa gct tgt gct tcc agt gac aaa cag	240
Ala Ser Ile Thr Cys Leu Ser Lys Ala Cys Ala Ser Ser Asp Lys Gln	
65 70 75 80	
tat att gtg agt gca tct gaa agt gga gag atg tgc ctc tgg gat gtg	288
Tyr Ile Val Ser Ala Ser Glu Ser Gly Glu Met Cys Leu Trp Asp Val	
85 90 95	
agt gat ggc aga tgt att gaa ttt aca aaa tta gct tgc aca cat act	336
Ser Asp Gly Arg Cys Ile Glu Phe Thr Lys Leu Ala Cys Thr His Thr	

100	105	110	
ggc ata cag ttc tac cag ttc tct gtt ggg aat cag cga gaa gga agg			384
Gly Ile Gln Phe Tyr Gln Phe Ser Val Gly Asn Gln Arg Glu Gly Arg			
115	120	125	
ctt tta tgc cac gga cat tac cct gaa atc ctt gtt gtg gat gct acc			432
Leu Leu Cys His Gly His Tyr Pro Glu Ile Leu Val Val Asp Ala Thr			
130	135	140	
agc ctt gaa gta tta tac tcc tta gta tca aag ata tca cca gac tgg			480
Ser Leu Glu Val Leu Tyr Ser Leu Val Ser Lys Ile Ser Pro Asp Trp			
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att agc tcc atg agt att att cga tcc cac cga aca caa gag gac aca			528
Ile Ser Ser Met Ser Ile Ile Arg Ser His Arg Thr Gln Glu Asp Thr			
165	170	175	
gtg gta gca ctc tcg gtg act ggc atc ctg aag gtc tgg att gtt acc			576
Val Val Ala Leu Ser Val Thr Gly Ile Leu Lys Val Trp Ile Val Thr			
180	185	190	
tcg gaa ata agt gac atg cag gat act gag cca ata ttt gag gag gaa			624
Ser Glu Ile Ser Asp Met Gln Asp Thr Glu Pro Ile Phe Glu Glu Glu			
195	200	205	
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Ser Lys Pro Ile Tyr Cys Gln Asn Cys Gln Ser Ile Ser Phe Cys Ala			
210	215	220	
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Phe Thr Gln Arg Ser Leu Leu Val Val Cys Ser Lys Tyr Trp Arg Val			
225	230	235	240
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Phe Asp Ala Gly Asp Tyr Ser Leu Leu Cys Ser Gly Pro Ser Glu Asn			
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Gly Gln Thr Trp Thr Gly Gly Asp Phe Val Ser Ser Asp Lys Val Ile			
260	265	270	
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275	280	285	
tgc ctt cca gct agt gat tca ttc cgc agt gat gtg ggg aag gca gtt			912
Cys Leu Pro Ala Ser Asp Ser Phe Arg Ser Asp Val Gly Lys Ala Val			
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gaa aat tta att cct cct gta caa cat atc ctc ttg gat cga aaa gat			960
Glu Asn Leu Ile Pro Pro Val Gln His Ile Leu Leu Asp Arg Lys Asp			
305	310	315	320
aaa gag ttg cta att tgt cct cct gtt act cgg ttc ttc tat gga tgc			1008
Lys Glu Leu Leu Ile Cys Pro Pro Val Thr Arg Phe Phe Tyr Gly Cys			
325	330	335	
aga gaa tat ttc cat aaa ctg tta att cag ggt gat tct tct gga agg			1056
Arg Glu Tyr Phe His Lys Leu Leu Ile Gln Gly Asp Ser Ser Gly Arg			
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Leu Asn Ile Trp Asn Ile Ser Asp Thr Ala Asp Lys Gln Gly Ser Glu	
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Glu Gly Leu Ala Met Thr Thr Ser Ile Ser Leu Gln Glu Ala Phe Asp	
370 375 380	
aaa ctg aat cct tgt cct gct gga att ata gat cag ctg agt gtg att	1200
Lys Leu Asn Pro Cys Pro Ala Gly Ile Ile Asp Gln Leu Ser Val Ile	
385 390 395 400	
ccc aat agt aat gaa cct ctt aaa gta act gca agt gtg tac ata cca	1248
Pro Asn Ser Asn Glu Pro Leu Lys Val Thr Ala Ser Val Tyr Ile Pro	
405 410 415	
gca cat gga cga ctt gtt tgt ggt cgt gaa gat gga agc ata gtt att	1296
Ala His Gly Arg Leu Val Cys Gly Arg Glu Asp Gly Ser Ile Val Ile	
420 425 430	
gta cct gcc aca cag acg gcc ata gta cag ctg ttg caa ggg gaa cac	1344
Val Pro Ala Thr Gln Thr Ala Ile Val Gln Leu Leu Gln Gly Glu His	
435 440 445	
atg ctc aga aga ggt tgg cca cct cac aga aca ctc cgt ggt cat cgg	1392
Met Leu Arg Arg Gly Trp Pro Pro His Arg Thr Leu Arg Gly His Arg	
450 455 460	
aac aaa gtc aca tgt ttg cta tat cct cat cag gtc tca gct cgg tat	1440
Asn Lys Val Thr Cys Leu Leu Tyr Pro His Gln Val Ser Ala Arg Tyr	
465 470 475 480	
gat caa aga tac ctg ata tct gga ggt gtg gat ttt tca gtc ata att	1488
Asp Gln Arg Tyr Leu Ile Ser Gly Gly Val Asp Phe Ser Val Ile Ile	
485 490 495	
tgg gac ata ttt tct gga gaa atg aaa cat atc ttc tgt gtt cat ggt	1536
Trp Asp Ile Phe Ser Gly Glu Met Lys His Ile Phe Cys Val His Gly	
500 505 510	
ggt gag att act caa ctt cta gtt cca cct gaa aac tgt agt gca aga	1584
Gly Glu Ile Thr Gln Leu Leu Val Pro Pro Glu Asn Cys Ser Ala Arg	
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gta cag cac tgc atc tgc tct gta gcc agt gac cac tca gta gga ctt	1632
Val Gln His Cys Ile Cys Ser Val Ala Ser Asp His Ser Val Gly Leu	
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545 550 555 560	
ttt cct att caa gta atc aaa tgg agg cct tct gat gat tac ctg gtg	1728
Phe Pro Ile Gln Val Ile Lys Trp Arg Pro Ser Asp Asp Tyr Leu Val	
565 570 575	
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Val Gly Cys Ser Asp Gly Ser Val Tyr Val Trp Gln Met Asp Thr Gly	
580 585 590	
gca ttg gat cgt tgt gtg atg ggg ata aca gca gtt gag att cta aac	1824
Ala Leu Asp Arg Cys Val Met Gly Ile Thr Ala Val Glu Ile Leu Asn	
595 600 605	

gct tgt gat gaa gct gtt cct gct gct gtt gat tca ctt agt cat cca	1872
Ala Cys Asp Glu Ala Val Pro Ala Ala Val Asp Ser Leu Ser His Pro	
610 615 620	
gca gtc aac cta aaa caa gct atg acg aga cgt agt ctt gct gct ctt	1920
Ala Val Asn Leu Lys Gln Ala Met Thr Arg Arg Ser Leu Ala Ala Leu	
625 630 635 640	
aaa aat atg gcc cat cat aag cta caa acc ctt gca act aac ctc ttg	1968
Lys Asn Met Ala His His Lys Leu Gln Thr Leu Ala Thr Asn Leu Leu	
645 650 655	
gct tct gag gca tct gac aag gga aat tta cct aaa tat tct cat aac	2016
Ala Ser Glu Ala Ser Asp Lys Gly Asn Leu Pro Lys Tyr Ser His Asn	
660 665 670	
tcc ctg atg gtt caa gca ata aag aca aac cta aca gac ccg gac ata	2064
Ser Leu Met Val Gln Ala Ile Lys Thr Asn Leu Thr Asp Pro Asp Ile	
675 680 685	
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His Val Leu Phe Phe Asp Val Glu Ala Leu Ile Ile Gln Leu Leu Thr	
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gaa gaa gcc tct agg ccg aat act gct ctt att tcc cca gag aat ttg	2160
Glu Glu Ala Ser Arg Pro Asn Thr Ala Leu Ile Ser Pro Glu Asn Leu	
705 710 715 720	
caa aaa gca tct ggc agt tca gac aaa ggg ggc tct ttt tta act gga	2208
Gln Lys Ala Ser Gly Ser Ser Asp Lys Gly Gly Ser Phe Leu Thr Gly	
725 730 735	
aaa cga gca gca gtt ctc ttc caa caa gtg aaa gaa acg atc aaa gag	2256
Lys Arg Ala Ala Val Leu Phe Gln Gln Val Lys Glu Thr Ile Lys Glu	
740 745 750	
aac atc aag gaa cac ctc ctt gat gat gaa gag gag gat gag gag ata	2304
Asn Ile Lys Glu His Leu Leu Asp Asp Glu Glu Glu Asp Glu Glu Ile	
755 760 765	
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Met Arg Gln Arg Arg Glu Glu Ser Asp Pro Glu Tyr Arg Ser Ser Lys	
770 775 780	
tca aag cca ttg acc cta tta gaa tat aat tta act atg gac act gca	2400
Ser Lys Pro Leu Thr Leu Leu Glu Tyr Asn Leu Thr Met Asp Thr Ala	
785 790 795 800	
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Lys Leu Phe Met Ser Cys Leu His Ala Trp Gly Leu Asn Glu Val Leu	
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gat gaa gtt tgc ctg gat cgc ctt gga atg ctg aaa ccc cac tgc acc	2496
Asp Glu Val Cys Leu Asp Arg Leu Gly Met Leu Lys Pro His Cys Thr	
820 825 830	
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Val Ser Phe Gly Leu Leu Ser Arg Gly Gly His Met Ser Leu Met Leu	
835 840 845	
ccg ggt tat aat cag cct gct tgt aaa ctg tca cat ggg aaa aca gaa	2592
Pro Gly Tyr Asn Gln Pro Ala Cys Lys Leu Ser His Gly Lys Thr Glu	

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gta gga agg aag ctg cca gcg tct gag gga gta gga aag gga act tac			2640
Val Gly Arg Lys Leu Pro Ala Ser Glu Gly Val Gly Lys Gly Thr Tyr			
865	870	875	880
gga gtg tcc cgt gcc gtc acc aca cag cat ctc ctg tct atc att tct			2688
Gly Val Ser Arg Ala Val Thr Thr Gln His Leu Leu Ser Ile Ile Ser			
885	890	895	
ttg gca aat act tta atg agt atg acc aat gca act ttt att ggt gat			2736
Leu Ala Asn Thr Leu Met Ser Met Thr Asn Ala Thr Phe Ile Gly Asp			
900	905	910	
cat atg aag aag ggt cct acc agg cca cct aga cca agc acc cca gac			2784
His Met Lys Lys Gly Pro Thr Arg Pro Pro Arg Pro Ser Thr Pro Asp			
915	920	925	
ctt tct aag gca agg ggt tcc cct cca act tcc agt aat att gtg caa			2832
Leu Ser Lys Ala Arg Gly Ser Pro Pro Thr Ser Ser Asn Ile Val Gln			
930	935	940	
gga cag att aaa caa gtt gct gca cct gtc gtt tcc gct cgg tct gat			2880
Gly Gln Ile Lys Gln Val Ala Ala Pro Val Val Ser Ala Arg Ser Asp			
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gct gat cac tct ggc tct gac cct cct tct gct cct gct tta cat acc			2928
Ala Asp His Ser Gly Ser Asp Pro Pro Ser Ala Pro Ala Leu His Thr			
965	970	975	
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Cys Phe Leu Val Asn Glu Gly Trp Ser Gln Leu Ala Ala Met His Cys			
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Val Met Leu Pro Asp Leu Leu Gly Leu Asp Lys Phe Arg Pro Pro Leu			
995	1000	1005	
ctg gag atg ctg gcc cga aga tgg caa gat cga tgc ttg gag gtg			3069
Leu Glu Met Leu Ala Arg Arg Trp Gln Asp Arg Cys Leu Glu Val			
1010	1015	1020	
aga gaa gcc gca cag gcc ctg ctt ctg gcg gaa ctg aga aga att			3114
Arg Glu Ala Ala Gln Ala Leu Leu Leu Ala Glu Leu Arg Arg Ile			
1025	1030	1035	
gag cag gca ggc agg aag gaa gcc att gat gcc tgg gct cct tac			3159
Glu Gln Ala Gly Arg Lys Glu Ala Ile Asp Ala Trp Ala Pro Tyr			
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Leu Pro Gln Tyr Ile Asp His Val Ile Ser Pro Gly Val Thr Ser			
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gaa gcc gcg cag act atc acc acg gct cct gat gcc tca ggg cct			3249
Glu Ala Ala Gln Thr Ile Thr Thr Ala Pro Asp Ala Ser Gly Pro			
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gaa gca aaa gtc cag gag gaa gag cat gac ctt gtt gac gat gac			3294
Glu Ala Lys Val Gln Glu Glu Glu His Asp Leu Val Asp Asp Asp			
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Ile Thr Thr Gly Cys Leu Ser Ser Val Pro Gln Met Lys Lys Ile	
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Ser Thr Ser Tyr Glu Glu Arg Arg Lys Gln Ala Thr Ala Ile Val	
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Leu Leu Gly Val Ile Gly Ala Glu Phe Gly Ala Glu Ile Glu Pro	
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Pro Lys Leu Leu Thr Arg Pro Arg Ser Ser Ser Gln Ile Pro Glu	
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Leu Ile Gly Arg Gly Phe Thr Val Trp Glu Pro Tyr Met Asp Val	
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Ser Ala Val Leu Met Gly Leu Leu Glu Leu Cys Ala Asp Ala Glu	
1220 1225 1230	
aaa caa ctt gcc aac atc aca atg ggg ttg cct ctg agc cca gca	3744
Lys Gln Leu Ala Asn Ile Thr Met Gly Leu Pro Leu Ser Pro Ala	
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Ala Asp Ser Ala Arg Ser Ala Arg His Ala Leu Ser Leu Ile Ala	
1250 1255 1260	
acc gcc aga cca ccc gcc ttc atc acc acc ata gcc aaa gag gta	3834
Thr Ala Arg Pro Pro Ala Phe Ile Thr Thr Ile Ala Lys Glu Val	
1265 1270 1275	
cac aga cat acg gct ctt gca gca aat acc caa tca cag cag aat	3879
His Arg His Thr Ala Leu Ala Ala Asn Thr Gln Ser Gln Gln Asn	
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atg cac aca aca act ctt gca cga gct aaa ggg gaa att ttg aga	3924
Met His Thr Thr Thr Leu Ala Arg Ala Lys Gly Glu Ile Leu Arg	
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gtc att gaa att ctt att gaa aag atg ccc aca gat gtt gtg gat	3969
Val Ile Glu Ile Leu Ile Glu Lys Met Pro Thr Asp Val Val Asp	
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ctt ctc gtg gag gtt atg gac atc att atg tac tgc ctt gaa gga	4014
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1325 1330 1335	

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Ser Leu Val Lys Lys Lys Gly	Leu Gln Glu Cys Phe	Pro Ala Ile	
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Cys Arg Phe Tyr Met Val Ser	Tyr Tyr Glu Arg Asn	His Arg Ile	
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Ala Val Gly Ala Arg His Gly	Ser Val Ala Leu Tyr	Asp Ile Arg	
1370	1375	1380	
act gga aaa tgt cag aca atc	cat gga cac aag gga	cca atc act	4194
Thr Gly Lys Cys Gln Thr Ile	His Gly His Lys Gly	Pro Ile Thr	
1385	1390	1395	
gca gtg gct ttt gct cct gat	gga aga tat ctt gcc	acc tac tca	4239
Ala Val Ala Phe Ala Pro Asp	Gly Arg Tyr Leu Ala	Thr Tyr Ser	
1400	1405	1410	
aac act gac agc cac att tct	ttt tgg cag atg aac	acg tca ctg	4284
Asn Thr Asp Ser His Ile Ser	Phe Trp Gln Met Asn	Thr Ser Leu	
1415	1420	1425	
ctg gga agc atc ggc atg ctg	aac tcg gca cct cag	ctg cgc tgc	4329
Leu Gly Ser Ile Gly Met Leu	Asn Ser Ala Pro Gln	Leu Arg Cys	
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Ile Lys Thr Tyr Gln Val Pro	Pro Val Gln Pro Ala	Ser Pro Gly	
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Ser His Asn Ala Leu Lys Leu	Ala Arg Leu Ile Trp	Thr Ser Asn	
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cgc aac gtc atc ctc atg gcc	cat gac ggg aag gag	cac cgc ttc	4464
Arg Asn Val Ile Leu Met Ala	His Asp Gly Lys Glu	His Arg Phe	
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atg gtc taa			4473
Met Val			
1490			

&lt;210&gt; 2

&lt;211&gt; 1490

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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Thr Ile Val Thr Gly Cys His Asp Gly Gln Ile Cys Leu Trp Asp Leu	
35	45
Ser Val Glu Leu Gln Ile Asn Pro Arg Ala Leu Leu Phe Gly His Thr	

50	55	60
Ala Ser Ile Thr Cys	Leu Ser Lys Ala Cys	Ala Ser Ser Asp Lys Gln
65	70	75
Tyr Ile Val Ser Ala	Ser Glu Ser Gly Glu Met	Cys Leu Trp Asp Val
85	90	95
Ser Asp Gly Arg Cys	Ile Glu Phe Thr Lys	Leu Ala Cys Thr His Thr
100	105	110
Gly Ile Gln Phe Tyr	Gln Phe Ser Val Gly Asn	Gln Arg Glu Gly Arg
115	120	125
Leu Leu Cys His Gly	His Tyr Pro Glu Ile	Leu Val Val Asp Ala Thr
130	135	140
Ser Leu Glu Val Leu	Tyr Ser Leu Val Ser	Lys Ile Ser Pro Asp Trp
145	150	155
Ile Ser Ser Met Ser	Ile Ile Arg Ser His	Arg Thr Gln Glu Asp Thr
165	170	175
Val Val Ala Leu Ser	Val Thr Gly Ile Leu	Lys Val Trp Ile Val Thr
180	185	190
Ser Glu Ile Ser Asp	Met Gln Asp Thr Glu	Pro Ile Phe Glu Glu Glu
195	200	205
Ser Lys Pro Ile Tyr	Cys Gln Asn Cys Gln	Ser Ile Ser Phe Cys Ala
210	215	220
Phe Thr Gln Arg Ser	Leu Leu Val Val Cys	Ser Lys Tyr Trp Arg Val
225	230	235
Phe Asp Ala Gly Asp	Tyr Ser Leu Leu Cys	Ser Gly Pro Ser Glu Asn
245	250	255
Gly Gln Thr Trp Thr	Gly Gly Asp Phe Val	Ser Ser Asp Lys Val Ile
260	265	270
Ile Trp Thr Glu Asn	Gly Gln Ser Tyr Ile	Tyr Lys Leu Pro Ala Ser
275	280	285
Cys Leu Pro Ala Ser	Asp Ser Phe Arg Ser	Asp Val Gly Lys Ala Val
290	295	300
Glu Asn Leu Ile Pro	Pro Val Gln His Ile	Leu Leu Asp Arg Lys Asp
305	310	315
Lys Glu Leu Leu Ile	Cys Pro Pro Val Thr	Arg Phe Phe Tyr Gly Cys
325	330	335
Arg Glu Tyr Phe His	Lys Leu Leu Ile Gln	Gly Asp Ser Ser Gly Arg
340	345	350
Leu Asn Ile Trp Asn	Ile Ser Asp Thr Ala	Asp Lys Gln Gly Ser Glu
355	360	365
Glu Gly Leu Ala Met	Thr Thr Ser Ile Ser	Leu Gln Glu Ala Phe Asp
370	375	380
Lys Leu Asn Pro Cys	Pro Ala Gly Ile Ile	Asp Gln Leu Ser Val Ile
385	390	395
Pro Asn Ser Asn Glu	Pro Leu Lys Val Thr	Ala Ser Val Tyr Ile Pro
405	410	415
Ala His Gly Arg Leu	Val Cys Gly Arg Glu	Asp Gly Ser Ile Val Ile
420	425	430



Val Pro Ala Thr Gln Thr Ala Ile Val Gln Leu Leu Gln Gly Glu His  
 435 440 445  
 Met Leu Arg Arg Gly Trp Pro Pro His Arg Thr Leu Arg Gly His Arg  
 450 455 460  
 Asn Lys Val Thr Cys Leu Leu Tyr Pro His Gln Val Ser Ala Arg Tyr  
 465 470 475 480  
 Asp Gln Arg Tyr Leu Ile Ser Gly Gly Val Asp Phe Ser Val Ile Ile  
 485 490 495  
 Trp Asp Ile Phe Ser Gly Glu Met Lys His Ile Phe Cys Val His Gly  
 500 505 510  
 Gly Glu Ile Thr Gln Leu Leu Val Pro Pro Glu Asn Cys Ser Ala Arg  
 515 520 525  
 Val Gln His Cys Ile Cys Ser Val Ala Ser Asp His Ser Val Gly Leu  
 530 535 540  
 Leu Ser Leu Arg Glu Lys Lys Cys Ile Met Leu Ala Ser Arg His Leu  
 545 550 555 560  
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 Val Gly Cys Ser Asp Gly Ser Val Tyr Val Trp Gln Met Asp Thr Gly  
 580 585 590  
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 Ala Cys Asp Glu Ala Val Pro Ala Ala Val Asp Ser Leu Ser His Pro  
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 Lys Asn Met Ala His His Lys Leu Gln Thr Leu Ala Thr Asn Leu Leu  
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 Ala Ser Glu Ala Ser Asp Lys Gly Asn Leu Pro Lys Tyr Ser His Asn  
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 Ser Leu Met Val Gln Ala Ile Lys Thr Asn Leu Thr Asp Pro Asp Ile  
 675 680 685  
 His Val Leu Phe Phe Asp Val Glu Ala Leu Ile Ile Gln Leu Leu Thr  
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 Glu Glu Ala Ser Arg Pro Asn Thr Ala Leu Ile Ser Pro Glu Asn Leu  
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 Gln Lys Ala Ser Gly Ser Ser Asp Lys Gly Gly Ser Phe Leu Thr Gly  
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 Lys Arg Ala Ala Val Leu Phe Gln Gln Val Lys Glu Thr Ile Lys Glu  
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 Met Arg Gln Arg Arg Glu Glu Ser Asp Pro Glu Tyr Arg Ser Ser Lys  
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 Ser Lys Pro Leu Thr Leu Leu Glu Tyr Asn Leu Thr Met Asp Thr Ala  
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 Lys Leu Phe Met Ser Cys Leu His Ala Trp Gly Leu Asn Glu Val Leu

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Asp	Glu	Val	Cys	Leu	Asp	Arg	Leu	Gly	Met	Leu	Lys	Pro	His	Cys	Thr						
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